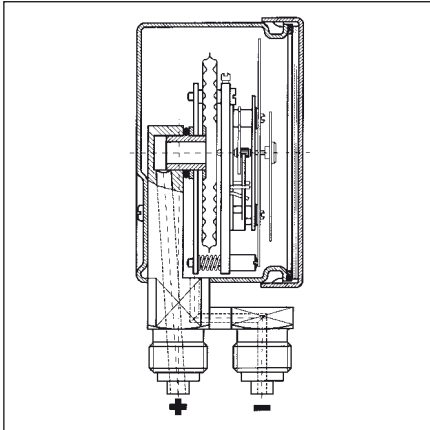


# Standard capsule type pressure gauges for differential pressure



## Application

For differential pressure measurement of gaseous, dry media which are non-corrosive. Especially suitable for filter loss measurement in air conditioning and ventilation applications.

! When measuring gas or vapour, the instruments must be used in accordance with the safety recommendations of EN 837-2 (see appendix).

## Type

D 9/D 4

## Nominal size

63 – 100 – 160

## Function

The „plus“ pressure (= high pressure) is applied to the inside of the diaphragm. The „minus“ pressure (= low pressure) is applied to the inside of the pressure tight housing. The pressure difference causes the diaphragm to change its shape, thus generating the movement required to measure the pressure. This displacement is picked up by the movement. The differential pressure is directly indicated by the pointer of the gauge.

## Accuracy class (EN 837-3/6)

1.6

## Ranges (EN 837-3/5)

NG 63 0/16 to 0/400 mbar  
 NG 100 0/ 6 to 0/400 mbar  
 NG 160 0/ 4 to 0/400 mbar

Refer to page 389 for prices

## Application area

Static load:

full scale value

Dynamic load:

0.9 x full scale value

## Overpressure safety

full scale value

## Maximum static pressure

400 mbar

## Operating temperature range

Medium:  $T_{max} = +60\text{ °C}$

Ambient:  $T_{min} = -20\text{ °C}$

$T_{max} = +60\text{ °C}$

## Temperature performance

Indication error when the temperature of the measuring element deviates from 20 °C:

rising temp. approx.  $\pm 0.6\text{ \%/10K}$

falling temp. approx.  $\pm 0.6\text{ \%/10K}$

percentage of full scale value

## Protection

IP 66 (EN 60529)

## Standard version

### Connection (wetted parts)

NG 63: 2 x G<sup>1</sup>/<sub>4</sub>B – spanner size 14  
 centre back (brass)

NG 100: 2 x G<sup>1</sup>/<sub>2</sub>B – spanner size 22  
 bottom (stainless steel)

2 x G<sup>1</sup>/<sub>2</sub>B – spanner size 22  
 centre back (brass)

(EN 837-3/7.3)

## Measuring element (wetted part)

Capsule element, CuBe alloy

## Movement (wetted part)

Brass

## Seal (wetted part)

„Perbunan“ nitrile rubber

## Dial (wetted part)

Aluminium, white

Dial marking black

## Pointer (wetted part)

Aluminium, black

## Housing (wetted part)

Stainless steel 304

## Bayonet type bezel/crimped bezel

Stainless steel 304

## Front glass (wetted part)

Plastic (PMMA)

## Mounting

Wall mounting via back flange or 3-hole fixing, panel mounting bezel (each as option). Direct mounting to rigid measuring pipe possible.

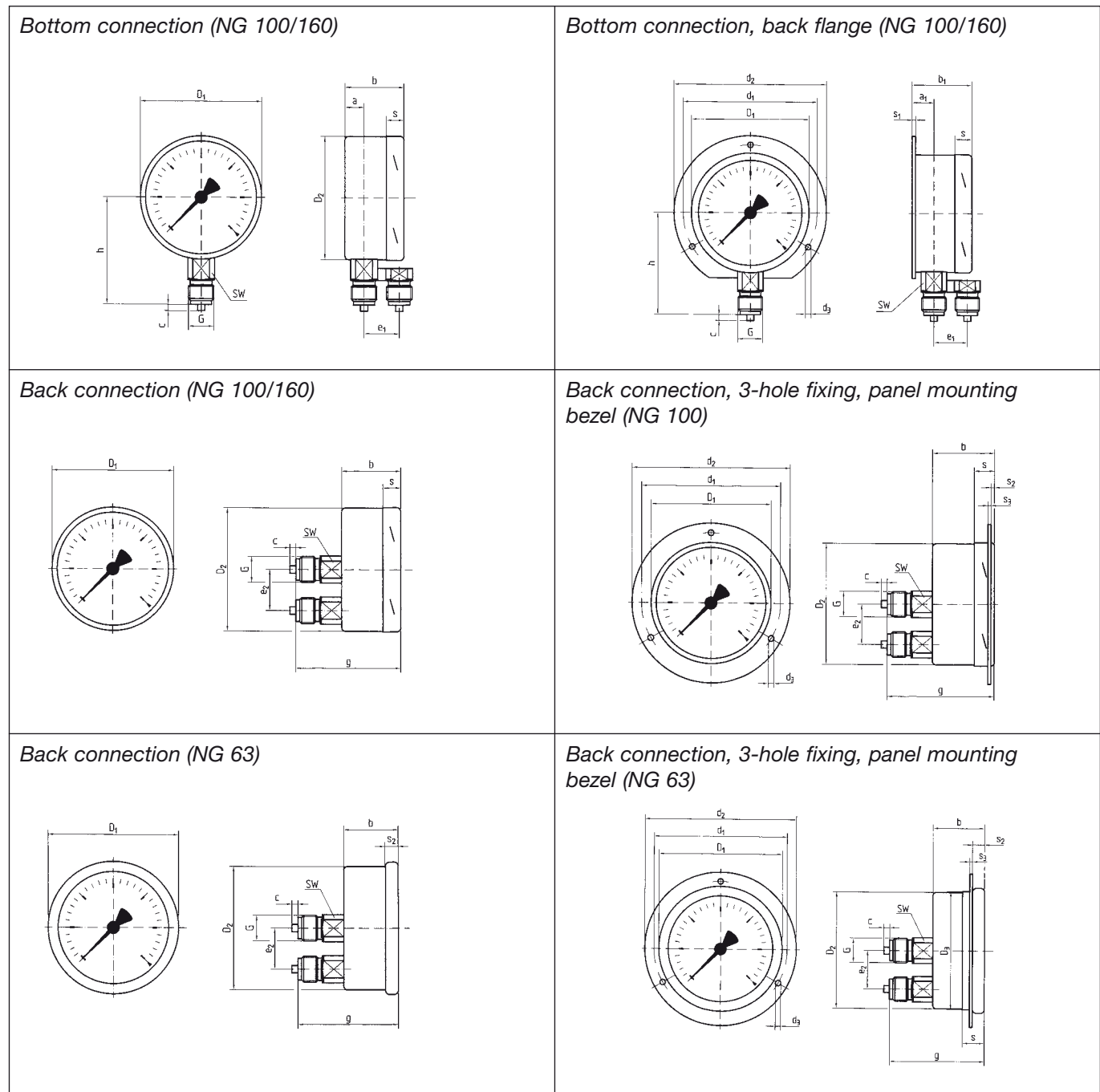
## Options

- Back flange
- 3-hole fixing, panel mounting bezel
- Hose connections

# Standard capsule type pressure gauges for differential pressure

## Type D 9 – NG 63/Type D 4 – NG 100/160

### Housing types and dimensions



### Dimensions (mm)

Nominal size (NG)	a	a <sub>1</sub>	b	b <sub>1</sub>	c	d <sub>1</sub> *	d <sub>2</sub>	d <sub>3</sub> *	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	e <sub>1</sub>	e <sub>2</sub>	g	G	h	S	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	SW	
63	-	-	30.5	-	2	75	85	3.6	68	62	64.3	-	20	53	G <sup>1</sup> / <sub>4</sub> B	-	14	-	6	2	14	
100	16	18	49	51	3	116	133	4.5	101	99	-	32	34.5	79	G <sup>1</sup> / <sub>2</sub> B	86	20	5	2.5	3	22	
160	16	19	49	52	3	178	196	4.5	161	159	-	32	34.5	79	G <sup>1</sup> / <sub>2</sub> B	118	20	6	4.5	2	22	

\* Dimensions according to DIN 16063/16064